

Attorney Docket Number 2000.611 US PD

In the Claims:

Please amend claims 27 and 28, and cancel claim 29.

Claims 1 - 2 cancelled

3. (Currently amended) The ~~immunogenic composition~~
~~vaccine~~ according to Claim 27, further comprising an
inactivating agent.
4. (Currently amended) The ~~immunogenic composition~~
~~vaccine~~ according to Claim 3, wherein the inactivating
agent is selected from the group consisting of
formalin, beta-
propiolactone, heat, binary ethylenimine, detergents,
and freeze/thaw.
5. (Currently amended) The ~~immunogenic composition~~
~~vaccine~~ according to Claim 27, wherein the adjuvant is
selected from the group consisting of polymers, oil in
water, water-in-oil-in-water, lipids, aluminum
hydroxide, aluminum phosphate, aluminum sulfate,
immunomodulators and combinations thereof.

Claims 6 - 26 cancelled

27. (Currently amended) An ~~immunogenic A vaccine~~
composition comprising ~~an immunogenically effective~~
~~amount of an L. intracellularis antigen, wherein said~~
~~antigen consists essentially of an inactivated, tissue~~
~~culture produced, whole cell L.intracellularis strain~~
deposited as ATCC deposit No. 55370, and an adjuvant,

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wherein on administration to swine said composition induces the production of antibodies to 21kD, 31kD, 41kD, 43-44kD, 60kD and 71kD antigens found on said *L.intracellularis* by Western blot analysis.

28. (Currently amended) The ~~immunogenic composition vaccine~~ according to claim 27, wherein the inactivated *L.intracellularis* antigen comprises is lysate of whole cell tissue culture grown *L.intracellularis*.

Claims 29 and 30 cancelled

31. (Currently amended) A method for protecting swine from disease caused by *L.intracellularis* comprising, administering to said swine an effective amount of the ~~immunogenic composition vaccine~~ according to claim 27.